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Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-1,2,3,4,5,6,11)-1988	Date: 9-06-2020
Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5	
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Birla Super 53-Grade
Date of Test	9-06-2020
Environmental Condition during test	Temperature: 26°C
	Humidity: 72%

Test Results

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	Finess by dry sieving (%)	1.95	-
2	Finess by Air permiability method (m^2/kg, Min)	285.4	225 m2
3	Density, (gm/cm)	3.12	-
4	Standard Consistency (%)	29.50%	Not Specified
5	Initial Setting time	145 Minutes	Not less than 30 minutes
6	Final Setting Time	240 Minutes	Not more than 15 minutes
7	Soudness (Le Chateliers Method)	1.5 mm	Not more than 10 mm

Remarks : Satisfactory

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Asst. Executive Engineer,
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012) Date: 9-06-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client:	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor:	K Lakshmi Narayana Reddy
Customer Reference:	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample:	Sample supplied by Agency
Sample Condition:	Satisfactory
Sample Type:	Fine Aggregate
Date of Test:	9-06-2020
Total wt. of the sample (gms):	1000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016			
					Grading Zone-1	Grading Zone-2	Grading Zone-3	Grading Zone-4
10	0	0	0.0	100	100	100	100	100
4.75	27	27	2.7	97.3	90-100	90-100	90-100	95-100
2.36	55	82	8.2	91.8	60-95	75-100	85-100	95-100
1.18	239	321	32.1	67.9	30-70	55-90	75-100	90100
600	205	526	52.6	47.4	15-34	35-59	60-79	80-100
300	203	729	72.9	27.1	5-20	8-30	12-40	15-50
150	191	920	92.0	8.0	0-10	0-10	0-10	0-15
Pan	80	1000	100.0	0.0	-	-	-	-

Result: The Tested Sample Conforms to Grading Zone-II

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Test Report of Coarse Aggregate

IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date: 9-06-2020
Name of Work: Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5	
Client:	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor:	K Lakshmi Narayana Reddy
Customer Reference:	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample:	Sample supplied by Agency
Sample Condition:	Satisfactory
Sample Type:	Coarse Aggregate
Date of Test:	9-06-2020

Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total wt of the sample (gms): 5000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
40	0	0	0.0	100	100
20	245	245	4.9	95.1	90-100
10	2560	2805	56.1	43.9	20-55
4.75	2033	4838	96.8	3.2	0-10
Pan	162	5000	100.0	0.0	-

Remarks: Satisfactory

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Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012) | Date: 9-06-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Coarse Aggregate
Date of Test	9-06-2020

Sieve Analysis (Particle Size Distribution) of 40mm Down Coarse Aggregate

Total wt. of the sample (gms): 15000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
80	0	0	0	100	100
40	244	244	1.6	98.4	90-100
20	5432	5676	37.8	62.2	30-70
10	4332	10008	66.7	33.3	10-35
4.75	4654	14662	97.7	2.3	0-5
Pan	338	15000	100.0	0.0	-

Remarks : Satisfactory

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Test Report of Wet Mix Macadum

MORTH Table 400-1	Date: 9-06-2020

Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
	K Lakshmi Narayana Reddy
	EE(PROJECT)/YNK ZONE/WO/23/2020-21
	Sample supplied by Agency
	Satisfactory
	WMM gradation
	9-06-2020

GRADATION

Sample:1 — Wt of sample(gms)(w1): 5000

	Sieve	Weight retained(gms)(W2)	cumulative weight retained(gms)(W3)	% of weight retained(%R=w3/w1)X100	% of passing,(%P=100-%R)	MORTH Table 400-1	Remarks
	53	0.00	0	0.00	100	100	Satisfactory
	45	125.00	125	2.50	97.5	95-100	Satisfactory
	22.4	1350.00	1475	29.50	70.50	60-80	Satisfactory
	11.2	1012.50	2487.5	49.75	50.25	40-60	Satisfactory
	4.75	937.50	3425	68.50	31.50	25-40	Satisfactory
	2.36	300.00	3725	74.50	25.50	15-30	Satisfactory
	0.6	600.00	4325	86.50	13.50	8--22	Satisfactory
	0.075	500.00	4825	96.50	3.50	0-5	Satisfactory

Sample:2 — Wt of sample(gms)(w1): 5000

	Sieve	Weight retained(gms)(W2)	cumulative weight retained(gms)(W3)	% of weight retained(%R=w3/w1)X100	% of passing,(%P=100-%R)	MORTH Table 400-1	Remarks
	53	0.00	0	0.00	100	100	Satisfactory
	45	125.00	125	2.50	97.5	95-100	Satisfactory
	22.4	1350.00	1475	29.50	70.50	60-80	Satisfactory
	11.2	1012.50	2487.5	49.75	50.25	40-60	Satisfactory
	4.75	937.50	3425	68.50	31.50	25-40	Satisfactory
	2.36	300.00	3725	74.50	25.50	15-30	Satisfactory
	0.6	600.00	4325	86.50	13.50	8--22	Satisfactory
	0.075	500.00	4825	96.50	3.50	0-5	Satisfactory

Satisfactory

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Name of Work : Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Test Result on Cement Concrete Kerb Stone

IS: 516 - 1959	Date: 10-06-2019
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Consultant	Transheight Consultants Private Limited
Agency	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Date of Receipt	10-06-2020
Sample Type	Kerb Stone/450x165x400 mm
Date of Test	10-06-2020

Block Density

Sl.No	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive Strength	Corrected Cylinder Compressive Strength	Equivalent Cube Compressive Strength
		mm	mm	Kg	Sq mm	KN	N/mm^2	N/mm^2	N/mm^2
I	A	100.01	165.51	2.864	7857	142.1	18.1	17.4	21.72
II	B	100.03	165.49	2.793	7860	145.2	18.5	17.8	22.20
III	C	100.01	165.5	2.815	7857	145.1	18.5	17.8	22.20

Remarks :

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PMC Client Contractor

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Test Report of Cement Concrete Cubes

IS: 1237-1980 (Reaffirmed 2006) | Date: 10/6/2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	10-06-2020
Sample Type	Pre polished cement concrete, designer tiles
Sample Type/Size	300x300x25 mm
Date of Test	10-06-2020
Location	Agrahara Lake/Palanahalli lake/Srinivas Pura & Kogilu lake

WET TRAVERSE STRENGTH TEST

Sl No.	Dimension	Wet Traverse Strength (N/mm2)	Average (N/mm2)	
1	300x300x25 mm	6.3	6.3	The average should be less than 3.0N/m2 when full 6 tiles are tested
2	300x300x25 mm	6.5		
3	300x300x25 mm	6.3		
4	300x300x25 mm	6.4		
5	300x300x25 mm	6.3		
6	300x300x25 mm	6.2		

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2. WATER ABSORPTION TEST				
Sl. No.	Dimension	Wet Traverse Strength TER (% By Wt)	Average (% By Wt)	
1	300x300x25 mm	2.15	2.3	The average should be less than 10.0% when full 6 tiles are tested
2	300x300x25 mm	2.1		
3	300x300x25 mm	2.4		
4	300x300x25 mm	2.38		
5	300x300x25 mm	2.22		
6	300x300x25 mm	2.4		

3. HARDNESS		
Sl. No.	Dimension	Mohr's Scale Hardness No.
1	300x300x25 mm	5
2	300x300x25 mm	5
3	300x300x25 mm	5
4	300x300x25 mm	5
5	300x300x25 mm	5
6	300x300x25 mm	5

Remarks :-

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 15-07-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	08-07-2020
Sample Type	Gym Equipment Post
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	15-07-2020
Location	Kogilu lake

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
I	Gym Equipment Post	M20	08-07-2020	15-07-2020	150x150x150	22500	8.65	395.6	17.6	17.56
II	Gym Equipment Post	M20	08-07-2020	15-07-2020	150x150x150	22500	8.80	397.5	17.7	
III	Gym Equipment Post	M20	08-07-2020	15-07-2020	150x150x150	22500	8.86	392.5	17.4	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 7/30/2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	08-07-2020
Sample Type	Gym Equipment Post
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	30-07-2020
Location	Kogilu lake

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Trsting	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	Gym Equipment Post	M20	08-07-2020	30-07-2020	150x150x150	22500	8.35	523.70	23.28	23.19
2	Gym Equipment Post	M20	08-07-2020	30-07-2020	150x150x150	22500	8.50	509.90	22.66	
3	Gym Equipment Post	M20	08-07-2020	30-07-2020	150x150x150	22500	8.56	531.50	23.62	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 17-07-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	10-07-2020
Sample Type	Gym Equipment Post
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	17-07-2020
Location	Agrahara Lake/Palanahalli lake/Srinivas Pura

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	Gym Equipment Post	M20	10-07-2020	17-07-2020	150x150x150	22500	8.62	397.7	17.7	17.71
2	Gym Equipment Post	M20	10-07-2020	17-07-2020	150x150x150	22500	8.76	399.1	17.7	
3	Gym Equipment Post	M20	10-07-2020	17-07-2020	150x150x150	22500	8.50	398.6	17.7	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 8/7/2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	10-07-2020
Sample Type	Gym Equipment Post
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	07-08-2020
Location	Agrahara Lake/Palanahalli lake/Srinivas Pura

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Trsting	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm²	N/mm²
1	Gym Equipment Post	M20	10-07-2020	07-08-2020	150x150x150	22500	8.47	527.60	23.45	23.43
2	Gym Equipment Post	M20	10-07-2020	07-08-2020	150x150x150	22500	8.72	525.36	23.35	
3	Gym Equipment Post	M20	10-07-2020	07-08-2020	150x150x150	22500	8.45	528.65	23.50	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 14-07-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	06-07-2020
Sample Type	PCC BEDDING
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M15/ 7 Days Compressive Strength
Date of Test	14-07-2020
Location	Agrahara Lake/Palanahalli lake/Srinivas Pura &Kogilu lake

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	PCC BEDDING	M15	06-07-2020	14-07-2020	150x150x150	22500	8.45	255.3	11.3	11.32
2	PCC BEDDING	M15	06-07-2020	14-07-2020	150x150x150	22500	8.55	260.2	11.6	
3	PCC BEDDING	M15	06-07-2020	14-07-2020	150x150x150	22500	8.40	248.5	11.0	

Remarks :

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | Date: 7/4/2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	06-07-2020
Sample Type	PCC BEDDING
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M15/ 28 Days Compressive Strength
Date of Test	04-07-2020
Location	Agrahara Lake/Palanahalli lake/Srinivas Pura & Kogilu lake

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Trsting	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	PCC BEDDING	M15	06-07-2020	04-07-2020	150x150x150	22500	8.46	365.3	16.2	16.19
2	PCC BEDDING	M15	06-07-2020	04-07-2020	150x150x150	22500	8.55	360.5	16.0	
3	PCC BEDDING	M15	06-07-2020	04-07-2020	150x150x150	22500	8.60	366.8	16.3	

Remarks :

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Test Result of Inter Lock pavers

IS: 516 - 1959 | Date: 20-06-2020

Name of Work : Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Type	Inter Lock pavers
Date of Test	20-06-2020
Location	

Sl. No	Details	Flexural Strength	Compressive Strength	Aveerage Compressive Strength
		mpa	N/mm^2	N/mm^2
1	Paver Block	4.10	36.25	36.61
2	Paver Block	4.42	37.77	
3	Paver Block	3.90	35.80	

Remarks :

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Test Result of Inter Lock pavers

IS: 516 - 1959	Date: 18-07-2020

Name of Work :Improvements of parks and providing children play equipment's in Telecom Layout surrounding in ward No-5

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	K Lakshmi Narayana Reddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/23/2020-21
Source of Sample	Sample supplied by Agency
Sample Type	Inter Lock pavers
Date of Test	18-07-2020
Location	

Sl. No	Details	Flexural Strength	Compressive Strength	Aveerage Compressive Strength
		mpa	N/mm^2	N/mm^2
1	Paver Block	4.17	35.84	36.28
2	Paver Block	3.85	37.42	
3	Paver Block	4.29	35.59	

Remarks :

Transheight Consultants Pvt. Ltd. Bangalore